

# On the solvability of geometrically nonlinear problem of sandwich plate theory

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## Abstract

© 2015 I. B. Badriev et al. The problem of determining the stress-strain state rigidly fixed sandwich plate with transversely soft core in the presence of constraints (i.e., material nonlinearity) corresponding to the ideal elastic-plastic model for the core material is considered. Solvability of the generalized statement of the problem as a problem of finding the saddle point of some functionals is investigated.

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## Keywords

Saddle point, Sandwich plate, Theorem of solvability, Transversely soft filler, Uniqueness theorem